

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	851	380/201.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:20
L2	368	380/210.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:21
L3	157	380/217.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:21
L4	2028	375/240.12.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:26
L5	271	375/240.13.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:26
L6	555	375/240.18.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:26
L7	655	375/240.2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:26
L8	2351	382/232.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:26
L9	1090	382/236.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:26

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L10	650	382/238.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:26
L11	595	382/250.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:29
L12	441	375/240.27.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:38
L13	18	(mark\$3 near3 video) same (cod\$3 with "motion vector")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:55
L14	163	(mark\$3 near3 video) and (cod\$3 with "motion vector")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 08:55
L15	61	(l1 or l2 or l3 or l4 or l5 or l6 or l7 or l8 or l9 or l10 or l11 or l12) and l14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 09:16
L16	91	((("DCT" or "discrete cosine transform") same error) and l14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 09:17
L17	5	l16 and ("absolute value" with "motion vector")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 09:23
L18	8	l16 and ("absolute value" same "motion vector")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 09:31
L19	9	"2002007403" or "5,960,081".pn. or "2002076083"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 09:31

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L20	8	I9 and I14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 09:32
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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12828	(absolute adj3 value) with compar\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 13:16
L2	96	l1 with "motion vector"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 13:16
L3	30	l2 with threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 13:48
L4	0	l2 same (watermark\$3 or encrypt\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 13:49
L5	1	l2 and (watermark\$3 or encrypt\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 13:50
L6	25	l2 and (predict\$3 near5 error)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 13:50





Bo Shen, Ishwar K. Sethi

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: [html\(33.22 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** DCT domain, geometric transform, image manipulation

## 5 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(747.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

## 6 A secure multicast protocol with copyright protection



Hao-hua Chu, Lintian Qiao, Klara Nahrstedt, Hua Wang, Ritesh Jain

April 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 2

Publisher: ACM Press

Full text available: [pdf\(301.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a simple, efficient, and secure multicast protocol with copyright protection in an open and insecure network environment. There is a wide variety of multimedia applications that can benefit from using our secure multicast protocol, e.g., the commercial pay-per-view video multicast, or highly secure military intelligence video conference. Our secure multicast protocol is designed to achieve the following goals. (1) It can run in any open network environment. It does not rely on any sec ...

**Keywords:** copyright protection, key distribution, multicast security, watermark

## 7 CD-I full-motion video encoding on a parallel computer



Frans Sijstermans, Jan van der Meer

April 1991 **Communications of the ACM**, Volume 34 Issue 4

Publisher: ACM Press

Full text available: [pdf\(7.97 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

## 8 An algorithm for lossless smoothing of MPEG video



Simon S. Lam, Simon Chow, David K. Y. Yau

October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications SIGCOMM '94**, Volume 24 Issue 4

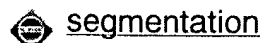
Publisher: ACM Press

Full text available: [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Interframe compression techniques, such as those used in MPEG video, give rise to a coded bit stream where picture sizes differ by a factor of 10 or more. As a result,

buffering is needed to reduce (smooth) rate fluctuations of encoder output from one picture to the next; without smoothing, the performance of networks that carry such video traffic would be adversely affected. Various techniques have been suggested for controlling the output rate of a VBR encoder to alleviate network congest ...

## 9 New enhancements to cut, fade, and dissolve detection processes in video



### segmentation

Ba Tu Truong, Chitra Dorai, Svetha Venkatesh

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available: pdf(733.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present improved algorithms for cut, fade, and dissolve detection which are fundamental steps in digital video analysis. In particular, we propose a new adaptive threshold determination method that is shown to reduce artifacts created by noise and motion in scene cut detection. We also describe new two-step algorithms for fade and dissolve detection, and introduce a method for eliminating false positives from a list of detected candidate transitions. In our detailed study of these gradual ...

## 10 Authoring Support: Automatic detection of 'Goal' segments in basketball videos



Surya Nepal, Uma Srinivasan, Graham Reynolds

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available: pdf(182.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Advances in the media and entertainment industries, for example streaming audio and digital TV, present new challenges for managing large audio-visual collections. Efficient and effective retrieval from large content collections forms an important component of the business models for content holders and this is driving a need for research in audio-visual search and retrieval. Current content management systems support retrieval using low-level features, such as motion, colour, texture, beat and ...

**Keywords:** content-based retrieval, sports video analysis, temporal models

## 11 Single-Chip MPEG-2 422P@HL CODEC LSI with Multi-Chip Configuration for Large Scale Processing beyond HDTV Level



Hiroe Iwasaki, Jiro Naganuma, Koyo Nitta, Ken Nakamura, Takeshi Yoshitome, Mitsuo Ogura, Yasuyuki Nakajima, Yutaka Tashiro, Takayuki Onishi, Mitsuo Ikeda, Makoto Endo

March 2003 **Proceedings of the conference on Design, Automation and Test in Europe: Designers' Forum - Volume 2 DATE '03**

**Publisher:** IEEE Computer Society

Full text available: pdf(362.07 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)  
[Publisher Site](#)

This paper proposes a new architecture for VASA, a single-chip MPEG-2 422P@HL CODEC LSI with multi-chip configuration for large scale processing beyond the HDTV level, and demonstrates its flexibility and usefulness. This architecture consists of triple encoding cores, a decoding core, a multiplexer/de-multiplexer core, and several dedicated application-specific hardware modules with a hierarchical flexible communication scheme for high-performance data transfer. VASA is the world's first single ...

## 12 VideoQ: an automated content based video search system using visual cues



Shih-Fu Chang, William Chen, Horace J. Meng, Hari Sundaram, Di Zhong

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available: pdf(1.67 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**13** A semi-automatic approach to home video editing

 Andreas Girgensohn, John Boreczky, Patrick Chiu, John Doherty, Jonathan Foote, Gene Golovchinsky, Shingo Uchihashi, Lynn Wilcox

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**

**Publisher:** ACM Press

Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** automatic video clip extraction, video analysis, video editing, video exploration

**14** A feature-based algorithm for detecting and classifying scene breaks

 Ramin Zabih, Justin Miller, Kevin Mai

January 1995 **Proceedings of the third ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  htm(58.14 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

**Keywords:** content-based indexing and retrieval, video processing

**15** Efficient support for scan operations in video servers

 Prashant J. Shenoy, Harrick M. Vin

January 1995 **Proceedings of the third ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  htm(47.24 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** disk arrays, scan operations, video servers

**16** Video retrieval: Feature extraction and content analysis for sports videos annotation

 J. Assfalg, M. Bertini, C. Colombo, A. Del Bimbo

September 2001 **Proceedings of the 2001 ACM workshops on Multimedia: multimedia information retrieval**

**Publisher:** ACM Press

Full text available:  pdf(608.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper illustrates an approach to semantic video annotation in the specific context of sports videos. Videos are automatically annotated according to elements of visual content at different layers of semantic significance. Unlike previous approaches, videos can include several different sports and can also be interleaved with non sport shots. Each shot is decomposed into its visual and graphic content elements, including foreground and background, objects, text captions, etc. Several differe ...

**Keywords:** content-based video retrieval, sports videos, video annotation, video semantics



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type information and **motion vectors** are included in the BL. We use the same **motion vectors** ... in an integer quotient with **absolute value** that can always be ...

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These **motion vectors** are coded and transmitted to. the receiver. The motion compensated **prediction error** is calculated by subtracting each ...

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[Scalable video encoder/decoder with drift control - Patent 6961383](#)

An apparatus for encoding **compressed video** comprising: ... i.e. **motion vectors** for motion compensation and macroblock type information, the use of which is ...

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[Using encoding cost data for segmentation of compressed image ...](#)

"Scene Change Detection in a MPEG **Compressed Video** Sequence," by J. Meng, ... 6 shows schematically, the forward and backward **motion vectors** for a block ...

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The **prediction error** signal is cre-. ated by taking the signed difference between each fixed region and its corresponding best. match. The **motion vectors** ...

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**Compressed video**, which uses predictive coding algorithms and variable-length coding, ... resulting in an integer quotient with **absolute value** that can al- ...

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bits occupied by **motion vectors** and pixel differences is lower ... be encoded directly instead of its **prediction error** if a good match ...

www.run.montefiore.ulg.ac.be/~soldani/Resilient\_Video\_Transmission\_-\_Application\_Layer\_versus\_Transport\_L... - [Similar pages](#)

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We compare methods for choosing **motion vectors** for motion-compensated video ... In this monograph, we focus on the rate control of **compressed video**. ...

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containing previously decoded sample values that are used to form the **prediction error**.

Motion estimation: The process of estimating **motion vectors** during ...

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mation like coding mode, **motion vectors**, and reference in- dices, and finally transmitted. ... the transformed and quantized **prediction error** difference ...

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sub-pixel ME diminishes noise in noisy sequences, reduces **prediction error**, and thus. improves compression efficiency. After obtaining **motion vectors**, ...

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missing **motion vectors** based on the **motion vectors** from the past time instant ... happens with texture coding, the **prediction error** for an inter coded shape ...

[www.img.lx.it.pt/publications/Theses/LuisDuclaSoares\\_PhD.pdf](http://www.img.lx.it.pt/publications/Theses/LuisDuclaSoares_PhD.pdf) - Similar pages

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4.11 Percentage of **prediction error** values over A, as a function of A. . ... use of the luminance **motion vectors** for chrominance motion compensation). ...

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**Motion vectors** are defined for each 16-pel by 16-line region of the image. The difference signal, the **prediction error**, is further compressed using the ...

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data and **compressed video** over a Serial Data Transport Interface (SDTI or ... using **motion vectors**. The layers can have different frame sizes, frame ...

[www.tek.com/Measurement/App\\_Notes/25\\_15215/eng/VideoGlossary\\_part\\_3.pdf](http://www.tek.com/Measurement/App_Notes/25_15215/eng/VideoGlossary_part_3.pdf) -

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sult in a **compressed video** sequence called Motion-JPEG. ... estimated **motion vectors** and the previous frame. The **prediction error** is cal- ...

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[Pulse or digital communications patents 200511](#)

The method includes generating a **prediction-error** signal by performing ... The arithmetic logic calculates **motion vectors** for a portion of a picture. ...

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The **prediction error** in the upper loop is predicted by the coded error signal in ... AVC-689

[.] Reduction of the bit-rate of **compressed video** while in its ...

[ftp3.itu.ch/av-arch/avc-site/1993-1996/AVC-0\\_v6.txt](http://ftp3.itu.ch/av-arch/avc-site/1993-1996/AVC-0_v6.txt) - 374k - [Cached](#) - [Similar pages](#)

[PDF] Scalable Compression and Transmission of Internet Multicast Video

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energy concentrated in the low frequencies, this **prediction error** (which accounts for ... and fail to outperform traditional schemes based on **motion vectors** ...

[www.eecs.berkeley.edu/Pubs/TechRpts/1996/CSD-96-928.pdf](http://www.eecs.berkeley.edu/Pubs/TechRpts/1996/CSD-96-928.pdf) - Similar pages

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[doc] [ITU-T Draft Recommendation H.263](#)

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In this optional mode **motion vectors** are allowed to point outside the picture. ... Then the 16x16 reconstructed **prediction error** blocks are obtained by ...  
[www.ece.cmu.edu/~ece796/documents/H263.doc](http://www.ece.cmu.edu/~ece796/documents/H263.doc) - [Similar pages](#)

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In the default prediction mode of H.263, **motion vectors** are restricted such that ... Then the 16x16 reconstructed **prediction error** blocks are obtained by ...  
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**Motion vectors** may be defined for a variety of region sizes in the picture. The **prediction error** is then further compressed using a transform to remove ...  
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[EP896477 Discovision european software patent - Start code ...](#)

MOTION COMPENSATION: The use of **motion vectors** to improve the efficiency of the ... decoded pel values that are used to form the **prediction error** signal. ...  
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both, **prediction error** and **motion vectors**, are transmitted to the receiver. ...  
**Compressed video** information is inherently variable in nature. ...  
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N-1 for a particular MacroBlock to be encoded. These **motion vectors** are coded and transmitted to the receiver. The motion compensated **prediction error** is ...  
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**Motion vectors** and intra prediction modes may be specified for a variety of block sizes in the picture. The **prediction error** is then further compressed ...  
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fying the **absolute value** of n . Note that this compaction could also be applied ... The **prediction error** and the **motion vectors** are coded ...  
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accurately estimate the **motion vectors** of lost MBs using correctly received ... **absolute value** of a quantized wavelet coefficient is either zero or a small ...  
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sample values that are used to form the **prediction error** signal. Motion Estimation. The process of estimating **motion vectors** in the encoding process. ...

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put is the power of the **prediction error** as a function of the pre-. dictor order. ... send a null field (zero size matrix) of **motion vectors** to ...

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Q.8/H.263 – Creation of reconstructed **prediction error** for pixels ...

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quantizer used to code the **prediction error** or the prediction ... first frame, **motion vectors** are used to predict a 16 £ 16 macroblock of pixels using a ...

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**motion vectors** and any coded **prediction error**, ... mark end of significant coefficients along a scan ... **compressed video**. To allow maximum flexibility ...

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